

Water Resources Board Meeting  
300 Sower Blvd, Frankfort, KY 40601  
November 28, 2016

# BOARD MEMBER SIGN-IN SHEET

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## BOARD MEMBER SIGN-IN SHEET

Name	Agency/Organization	Email Address	Phone number
Rusty Cress	KLC	RCress@dinsmore.com	(502) 352-4612
Peter Goodman	KDA	peter.goodman@ky.gov	(502) 382-6951
Ryan Quade	KDA	Ryan.F.Quade@ky.gov	

Water Resources Board Meeting  
300 Sower Blvd, Frankfort, KY 40601  
November 28, 2016

# PUBLIC SIGN-IN SHEET

Name	Agency/Organization	Email Address	Phone number
Samantha Kaiser	DOJ	Samantha.Kaiser@ky.gov	502-782-6995
Greg Arimone	Ky Rural Water	G.Arimone@KRWH.org	270.843.2291
Jim Klipp	KWRBT	Klipp@WKY.EDU	859-257-1832
Jon Becker	DOJ	jon.becker@ky.gov	502 782 6887
Birk Baker	GOP	BIRK.BAKER@KY.GOV	502 5644627
Warren Beeler	GOP	Warren.beeler@ky.gov	502-564-4627
Joe Cain	KY Farm Bureau	joe.cain@kyfb.com	502-495-7138
Brent Burchett	KY DEPT of AG	BRENT.BURCHETT@KY.GOV	502-782-4120

**Water Resources Board Meeting  
November 28, 2016  
1:00 PM EDT  
Training Room C  
300 Sower Blvd  
Frankfort, Kentucky 40601**

1. Call Meeting to Order and Roll Call of Board Members
2. Introduction of Guests
3. Minutes of October 31, 2016
4. Review and Ranking of Project Profiles
5. State Water Plan Committees Report
6. Open Discussion for Board Members
7. Public Comment Period
8. Next Meeting February 02, 2017 (following the Ag Water Quality Authority Meeting)

**Water Resources Board  
Draft Meeting Minutes  
October 31, 2016**

Board Members in Attendance: Earl Bush (County Judge Executives); Brent Burchett (Proxy, KDA); Steve Coleman (KY Farm Bureau); Lloyd Cress, Jr. (KY League of Cities); Dr. Nancy Cox (UK); John Dix (KRWA); Peter Goodman (Proxy, EEC, Director DOW); Kevin Jeffries (Soil and Water Conservation Districts); Kevin Rogers (KY Chamber of Commerce)

Board Members Absent: Jared Carpenter (LRC); Tom McKee (LRC); Ryan Quarles (Commissioner Dept. of Agriculture); Charles Snavelly (EEC Secretary)

Others in Attendance: Lowell Atchley (LRC); Biff Baker (GOAP); Jory Becker (DOW); Warren Beeler (GOAP); Lanny Brannock (EEC); Bill Caldwell (KDOW); Pete Cinotto (USGS); Mike Griffin (USGS); Steve Higgins (UK CAFE); Carey Johnson (DOW); Samantha Kaiser (DOW); Jim Kipp (KWRRD); Gary Larimore (KRWA); Allen Luttrell (DNR); Haley McCoy (EEC); Kate Shanks (KY Chamber of Commerce); Steve Workman (UK); Chip Zimmer (DOW);

The meeting began at 1:05 p.m.

Call Meeting to Order and Roll Call of Board Members

Peter Goodman called the meeting to order and led the roll call of Board members.

Introduction of Guests

Guests introduced themselves.

Chip Zimmer discussed the current drought issues that Kentucky is experiencing. There is currently a moderate drought in Southeast Kentucky and the Cumberland area. The current concerns are for drinking water supplies and forest fires. There are currently 2800 acres of active uncontrolled fires in Kentucky, with three significant fires burning at the same time and 75% are considered arson.

Approve Minutes of September 29, 2016

The meeting minutes from September were approved by consensus.

Presentation by Bill Caldwell, Environmental Scientist, DOW – Looking Ahead to a Kentucky Water Resources Plan

Mr. Caldwell gave a Power Point presentation discussing how to establish a Kentucky Water Resources Plan. The Water Management Working Group has made available a comprehensive collection of resources which can be found online at; [www.kyfb.com/federation/water/resources/](http://www.kyfb.com/federation/water/resources/). Several states, including Arkansas, Oklahoma, and Georgia, have already implemented a Water Resources Plan. Each state has a unique plan but all share common features that form the foundation for water planning. The core elements of a water plan process were discussed. Technical data and studies will help determine water availability and demand forecasting. Identifying gaps in data will help determine future projects. Plan development can be determined from local and regional stake-holder driven meetings. Projects can

## STATE WATER PLAN INITIAL PROJECT PROFILE

A state water plan will be built upon a series of technical studies or tools. These will be designed to provide decision makers with the necessary data to conceive, develop, prioritize and implement measures that will address existing water supply issues and create a vision for future water resources development for the Commonwealth. Two fundamental areas of technical study are proposed that will be complemented by several lesser projects that together will provide a basis for developing a state water plan (see attached presentation from the October Board meeting for process overview).

### **Water Availability**

A statewide water availability assessment will be performed at a planning unit level to inventory the regional water sources and assess annual and seasonal surplus and deficit based on hydrological records, models or other methods and known withdrawal and instream flow demands.

### **Demand Forecasting**

Projecting future water demands for water supply, agriculture, industry, mining, energy production and other needs is a key part of developing a long-term vision for the state's water resources. Reliable projections for water demands combined with a water availability assessment will be used to identify gap areas where water demands may exceed supply, serving as the basis for water plan development.

### **Other related projects and studies**

Drought Risk Assessment: a drought risk assessment will be developed by the Division of Water in 2017. One of the principal water use sectors included in the assessment will be agricultural drought risk based on regional vulnerability to drought in crop and animal production operations. Data from this assessment may inform both the Water Availability and Demand Forecasting technical studies. This project is funded by a grant from FEMA.

Aquifer Designation: developed for all regulated groundwater withdrawals in Kentucky , or for a region in a pilot study. Data and methods developed for this study are expected to contribute to more detailed characterization studies of aquifers that are or may become high-use aquifers, most notably in the Jackson Purchase area. This study will be proposed as part of a USGS Water Use Data and Reporting grant (WUDR) in cooperation with KGS.

Water Tracking: Tracking the various uses of water that produced by the state's 397 Public water systems (PWS). Treated water is used for domestic, commercial, industrial, mining, agricultural and other purposes. This study will include an assessment of the demands that may be placed on PWS by livestock water demand, especially under seasonal high demand or drought conditions. It is anticipated that this study can be funded by leveraging funds from a WUDR grant with other funding sources.

Data Management		
Name	Organization	Email
Bill Caldwell	DOW	<a href="mailto:Bill.Caldwell@ky.gov">Bill.Caldwell@ky.gov</a>
Peter Goodmann	DOW	<a href="mailto:Peter.Goodmann@ky.gov">Peter.Goodmann@ky.gov</a>
Steve Coleman	KYFB	<a href="mailto:soil1951@yahoo.com">soil1951@yahoo.com</a>
	USGS	
	KGS	
	Foster	
	KRWs	
	KFB	
Todd Griffin	Agriculture Business	
	Economic Forecast/KAWC	
	EDC	
Jon Dix	KRWA	<a href="mailto:johnd@warrenwater.com">johnd@warrenwater.com</a>
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Biff Baker	GOAP	<a href="mailto:Biff.Baker@ky.gov">Biff.Baker@ky.gov</a>
	Western KY	

Road Mapping		
Name	Organization	Email
	ADDs	
	DNR	
Carey Johnson	DOW	<a href="mailto:Carey.Johnson@ky.gov">Carey.Johnson@ky.gov</a>
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Biff Baker	GOAP	<a href="mailto:Biff.Baker@ky.gov">Biff.Baker@ky.gov</a>
	Development Board/KIPTA	
Peter Goodmann/Secretary Snavelly		
	EDC	
Kevin Rogers	KCC	

# Project Profile Ranking Results

Project Profiles	Project Title	Project Duration	Annual Cost	Score	Minimum	Maximum
DOW-1	State Water Plan Initial Project Profile (see separate attachment)	5 year	\$130,000	1.4	1	3
KGS-1	Kentucky Groundwater Observation Network	3 year	\$122,000	2.2	1	3
WKU-1	Kentucky Mesonet Station Acquisition and Installation	5 year	\$45,000	4.8	3	7
WKU-2	Kentucky Mesonet Soil Monitoring	2 year	\$36,000	4.8	2	8
USGS-2	Streamflow Gaging Stations in Critical Areas with Existing Data Gaps	3 year	\$90,000	4.8	1	9
USGS-1	Agricultural and Drought Data Management and Integration Application for Kentucky	1 year	\$40,000	5.8	2	9
UK-1	Stormwater management, Water Harvesting, and the LEAF Program	Variable	\$20,000 - \$130,000	6.3	4	9
WKU-3	Kentucky Mesonet Precipitation Monitoring	2 year	\$124,000	7.3	3	11
KGS-2	A Groundwater Withdrawal Assessment Tool for the Jackson Purchase Region	1 year	\$50,000	7.5	5	11
USGS-3	Water Quality Monitoring Stations to Better Quantify Nutrient Loading from Kentucky	3 year	\$276,000	8.0	3	11
WKU-4	Summaries, Forecasts and Outlooks	2 year	\$200,000	9.2	5	11

